## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A method of manufacturing method of a piezoelectric/electrostrictive film type device including comprising a ceramic substrate of a ceramic, and a piezoelectric/electrostrictive operation portion containing formed on said ceramic substrate, said piezoelectric/electrostrictive operation portion including a lower electrode, a piezoelectric/electrostrictive layer, and a an upper electrode being formed on said substrate, wherein the said piezoelectric/electrostrictive layer is formed to extend beyond ends of at least one of the said electrodes, thereby the so that ends of the a projected portion of said piezoelectric/electrostrictive layer is projected, whereinproject beyond said ends of said at least one electrode, said method comprises comprising the steps of:

forming the <u>said</u> piezoelectric/electrostrictive layer of the <u>said</u>
piezoelectric/electrostrictive operation portion in a range broader than<u>so</u> that of at least
one of electrodes to project ends of the <u>said</u> projected portion of <u>said</u>
piezoelectric/electrostrictive layer <u>project</u> beyond ends of at least one of <u>said</u>
electrodes;

eoating preparing a coating liquid prepared by admixing a polymerizable oligomer and inorganic particles in a dispersing medium in an a sufficient amount sufficient to make the allow said coating liquid to permeate through a gap between at least a said projecting portion of the said piezoelectric/electrostrictive layer and the said ceramic substrate and:

<u>applying said coating liquid to coat a one or more predetermined portion,</u> <u>discrete application portions</u> of said at least one <u>of electrodes</u> electrode; and

drying the said coating liquid to form a coupling member to couple which couples said ends of a said projected portion of the said piezoelectric/ electrostrictive layer to the said ceramic substrate.

2. (Currently Amended) The <u>method of manufacturing method of the</u>
piezoelectric/electrostrictive film type-device according to claim 1, comprising the
steps of:wherein said applying step comprises applying the said coating liquid to said
one or more discrete application portions of said at least one electrode using a coating
apparatus comprising:
pressurizing supply means for pressurizing/supplying the said coating liquid;
switching means which is disposed in a supply path of the said pressurizing
supply means to switch the a supply of the said coating liquid; and
a discharge head for discharging the said coating liquid introduced from the
said supply path of the said pressurizing supply means to the outside, the said
discharge head comprising:
a discharge head substrate including a coating liquid introduction path
connected to the said supply path of the said pressurizing supply means,
a pressurizing chamber in which the said coating liquid introduction path
opens, and
one or more coating liquid discharge paths connected to the said
pressurizing chamber and opened to the outside; and
a piezoelectric/electrostrictive operation portion disposed in a position opposite
to the opposing said pressurizing chamber on the said discharge head substrate;
wherein at an open time of the switching means, the said coating liquid
introduced into the said pressurizing chamber is continuously discharged in an
atomized droplet state by a flexural displacement of the said piezoelectric/
electrostrictive operation portion when said switching means is open.

3. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/electrostrictive film type device according to claim 1, comprising the <u>steps of:wherein said applying step comprises</u> applying the <u>said coating liquid to said one or more discrete application portions of said at least one electrode using a coating apparatus comprising:</u>

a substrate including a coating liquid introduction path connected to a coating
liquid supply source, a pressurizing chamber in which the said coating liquid
introduction path is opened, and one or more coating liquid discharge paths connected
to the said pressurizing chamber and opened to the outside; and
a piezoelectric/electrostrictive operation portion disposed in a position
opposite to the opposing said pressurizing chamber;
wherein said coating liquid introduced into said pressurizing chamber is
discharged in an atomized droplet state in accordance with a flexural displacement of
the said piezoelectric/electrostrictive operation portion, the coating liquid introduced
into the pressurizing chamber is discharged in an atomized droplet state.

- 4. (Currently Amended) The <u>method of manufacturing method of the piezoelectric/-electrostrictive film type device according to claim 2, comprising wherein said applying step comprises the steps of: applying the said coating liquid to said one or more discrete application portions of said at least one electrode in an amount which differs with a position to be applied different amounts at different ones of a plurality of said discrete application portions using any-one of (1) a coating apparatus comprising a discharge head including a plurality of coating liquid discharge paths having different nozzle sizes, and (2) a coating apparatus comprising a plurality of discharge heads different from one another in the nozzle size of the coating liquid discharge path.</u>
- 5. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/-electrostrictive film type-device according to claim 3, <u>comprising the steps of:wherein said applying step comprises applying the said coating liquid to said one or more discrete application portions of said at least one electrode in an amount which differs with a position to be applied different amounts at different ones of a plurality of said discrete application portions using a coating apparatus comprising a plurality of coating liquid discharge paths having different nozzle sizes.</u>

- 6. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/electrostrictive film type device according to claim 1, <u>comprising the steps of: applying the coating liquid whilewherein said applying step comprises</u> vibrating at least the <u>one of said substrate or the and said piezoelectric/electrostrictive layer during said applying step.</u>
- 7. (Currently Amended) The <u>method of manufacturing method of a the</u> piezoelectric/electrostrictive film type device according to claim 1, wherein the <u>said</u> piezoelectric/electrostrictive operation portion is <u>comprises</u> a multilayered structure <u>including a plurality of said piezoelectric/electrostrictive layers and said electrodes</u> alternately stacked on said ceramic substrate.
- 8. (Currently Amended) The method of manufacturing method of the piezoelectric/electrostrictive film type device according to claim 7, comprising the steps of: wherein said applying step comprises applying the said coating liquid to said one or more discrete application portions of said at least one electrode using a coating apparatus comprising: pressurizing supply means for pressurizing/supplying the said coating liquid; switching means which is disposed in a supply path of the said pressurizing supply means to switch the a supply of the said coating liquid; and a discharge head for discharging the said coating liquid introduced from the supply path of the pressurizing supply means to the outside, the said discharge head comprising: a discharge head substrate including a coating liquid introduction path connected to the said supply path of the said pressurizing supply means, a pressurizing chamber in which the said coating liquid introduction path opens, and

one or more coating inquid discharge paths connected to the said
pressurizing chamber and opened to the outside; and
a piezoelectric/electrostrictive operation portion disposed in a position
opposite to the opposing said pressurizing chamber on the said discharge head
substrate;
wherein at an open time of the switching means, the said coating liquid
introduced into the said pressurizing chamber is continuously discharged in an
atomized droplet state by a flexural displacement of the said piezoelectric/
electrostrictive operation portion when said switching means is open.
9. (Currently Amended) The <u>method of manufacturing method of the</u>
piezoelectric/electrostrictive film type-device according to claim 7, comprising
wherein said applying step comprises the steps of: applying the said coating liquid to
said one or more discrete application portions of said at least one electrode using a
coating apparatus comprising:
a substrate including a coating liquid introduction path connected to a coating
liquid supply source, a pressurizing chamber in which the said coating liquid
introduction path is opened, and one or more coating liquid discharge paths connected
to the said pressurizing chamber and opened to the outside; and
a piezoelectric/electrostrictive operation portion disposed in a position opposite
to the opposing said pressurizing chamber;
wherein in accordance with flexural displacement of the piezoelectric/
electrostrictive operation portion, the said coating liquid introduced into the said
pressurizing chamber is discharged in an atomized droplet state in accordance with a
flexural displacement of said piezoelectric/electrostrictive operation portion.

10. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/electrostrictive film type device according to claim 8, comprising the <u>steps of:wherein said applying step comprises</u> applying the <u>said coating liquid to said</u>

one or more discrete application portions of said at least one electrode in an amount which differs with a position to be applied different amounts at different ones of a plurality of said discrete application portions using any one of the (1) a coating apparatus comprising a discharge head including a plurality of coating liquid discharge paths having different nozzle sizes, and (2) a coating apparatus comprising a plurality of discharge heads different from one another in the nozzle size of the coating liquid discharge path.

- 11. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/electrostrictive film type device according to claim 9, comprising the steps of:wherein said applying step comprises applying the said coating liquid to said one or more discrete application portions of said at least one electrode in an amount which differs with a position to be applied <u>different amounts</u> at <u>different ones of a plurality of said discrete application portions</u> using a coating apparatus comprising a plurality of coating liquid discharge paths having different nozzle sizes.
- 12. (Currently Amended) The <u>method of manufacturing method of the</u> piezoelectric/electrostrictive film type device according to claim 7, eomprising the steps of: applying the coating liquid while <u>wherein said applying step comprises</u> vibrating at least the <u>one of said substrate or the and said piezoelectric/electrostrictive</u> layer while said coating liquid is applied.